

## M 5.6, 49 km ESE of Ishinomaki, Japan

Origin Time: 2021-04-18 00:29:25 UTC (Sun 09:29:25 local)

Location: 38.2705° N 141.8347° E Depth: 31.3 km

Created: 5 hours, 59 minutes after earthquake

### Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



### Estimated Economic Losses

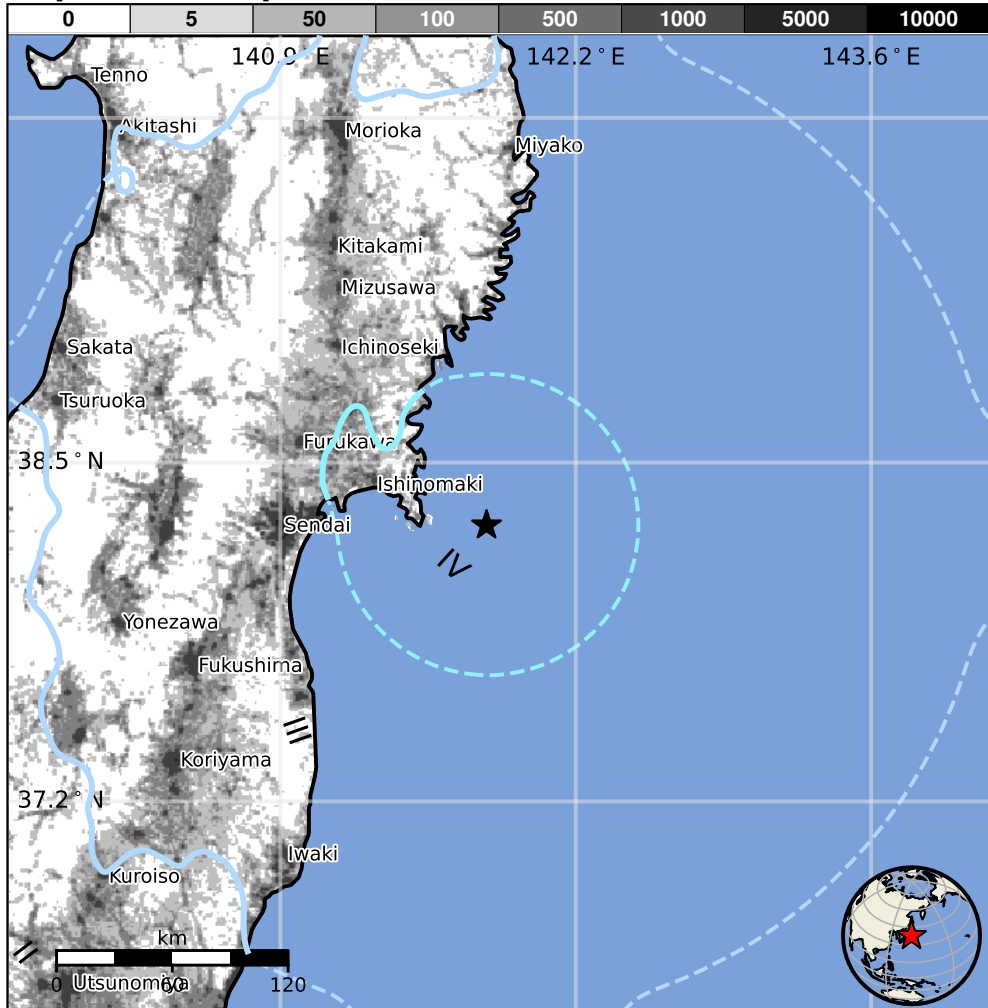


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	8,580k	445k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

### Population Exposure



### Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1983-08-08	394	5.6	VII(7k)	1
1987-12-17	345	6.5	VII(8,018k)	2
1983-05-26	339	7.7	VII(174k)	104

Recent earthquakes in this area have caused secondary hazards such as landslides and fires that might have contributed to losses.

### Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Ishinomaki	117k
IV	Yamoto	32k
IV	Onagawa Cho	<1k
IV	Shiogama	60k
IV	Matsushima	16k
IV	Wakuya	18k
III	Sendai	1,063k
III	Fukushima	294k
III	Morioka	295k
III	Akita	326k
II	Utsunomiya	450k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000e2hq#pager>

bold cities appear on map.

(k = x1000)

Event ID: us6000e2hq